

Leak Detection of Blister Packaging, Sachets & Pouches with Low Headspace

JKang

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VeriPac 410
a PTI technology

The VeriPac 410 inspection system offers non-destructive seal and leak detection for blister packs, sachets, and pouches with low headspace.

Multi-cavity blister packs and low head space packaging use a variety of test methods to determine package integrity, with most being destructive, subjective, and unreliable.

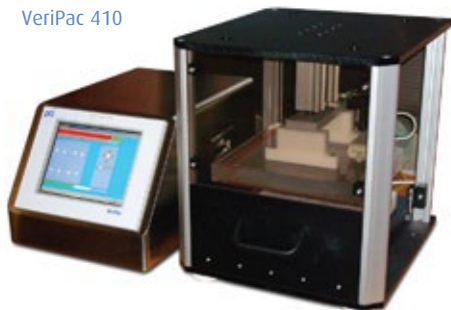
The VeriPac 410 utilizes a combination of vacuum decay technology and differential force measurement to identify defective packages. Depending on the package specifications, the 410 provides the capability to test multiple packages in a single test cycle. The VeriPac 410 also identifies which package or blister cavity is defective. Test results are quantitative and provide operators with a definitive pass/fail result.

Package quality assurance is achieved by deploying accurate, reliable, non-destructive inspection methods that remove subjectivity from the testing process. The VeriPac 410 allows tested product to be returned to the production line and eliminates the cost and waste associated with destructive leak test methods. The 410 addresses all issues associated with low volume flexible and semi-flexible package leak testing. The ROI for the VeriPac 410 makes this a powerful solution for the pharmaceutical industry.

BENEFITS

- Non-destructive, non-invasive, no sample preparation
- Non-subjective, accurate and repeatable results
- Capability to test multiple packages in a single test cycle
- Identifies which package is defective
- Simplifies the inspection and validation process
- Supports sustainable packaging initiatives
- ASTM test method and FDA standard
- Cost effective with rapid return on investment

VeriPac 410

A screenshot of the VeriPac 410 software interface. The interface is divided into several sections. At the top, there's a header bar with 'VeriPac 410' and 'Login Level: 1'. Below this, there's a menu bar with 'Main', 'Parameters', 'Login', 'Data', 'System', and 'Pressure Plate'. The main area displays a table of test results for 'Product 2'. The table has columns for 'Test #', 'MB', 'MB/F', and 'Comments'. The 'Test #' column ranges from 10 to 13. The 'MB' column shows values like 574.0, 575.6, 576.7, 578.7, 572.1, 576.6, 576.6, 572.3, 572.7, and 572.6. The 'MB/F' column shows values like 37.2, 37.3, 38.4, 37.7, 35.8, 39.0, 37.3, 36.3, 36.2, and 36.5. The 'Comments' column is empty. To the right of the table, there's a 'Test Vac' section with a scale from 0 to 1000 and a 'DR Vac' section with a scale from 0 to 100. At the bottom, there's a 'Tested' section with 'Failed' and 'Pass' buttons, and a 'System Count' section with '910' and 'Failed (Pressure Plate)'.

TECHNOLOGY

The VeriPac 410 tester is connected to a specially designed drawer-style test chamber. A custom package insert that conforms to the package shape increases test sensitivity. Certain types of packages can be tested in multiple during a single test cycle. The location of the defective package or cavity is identified. Vacuum levels are monitored during the test cycle to evaluate the package using the ASTM F2338 vacuum decay leak test method. Decay of the vacuum level indicates that air is leaking from the package into the test chamber.

Once the vacuum testing phase is complete, a pressure plate maps the surface pressure of the flexible package lidding. The pressure plate system recognizes the pressure pattern exerted by the package when it is not defective, and the lack of pressure exerted on the pressure plate by a defect, allowing for both defect detection and location of the defective package or cavity.

INSPECTION CRITERIA

- Leak detection and seal integrity testing of entire package
- Test sensitivity down to 15 microns

SPECIFICATIONS

VeriPac 410

Application	Non-destructive leak detection of blister packs, sachets and pouches with low headspace Defect profile typically > 15 microns
Package Type	<ul style="list-style-type: none">• Blister packs• Sachets• Pouches with low headspace
Package Materials	Non-porous materials: foil, plastic, poly, film, Aluminum, paper
Offline or Online	Offline lab instrument
Test Method*	<ul style="list-style-type: none">• Absolute vacuum transducer• Pressure plate
Technology	Vacuum decay and differential force measurement
Operator Interface	10" Color Touch Screen
Test Parameter Storage	Up to 20 packages
Test Result Data	Pass/Fail Result in mBar units
Test Sensitivity	2 ccm (approximate hole size 15 microns)
Security Password	Yes
Remote Internet Access	Yes
Data Collection	View on touch screen and electronic data log collection
Test Chamber	Test drawer configuration
ASTM Test Method	ASTM F2338-09**
Test Instrument Enclosure	Stainless Steel
Test Chamber Inner Dimensions	Maximum test area 240 mm x 240 mm
Test Dimensions/Weight	14.5" W x 22" D x 12" H/35 lbs.
Test Drawer Footprint	17" W x 21" D
Power	100-240 VAC;50/60 cycles
Air	90 psi
Options	Validation Qualification Package (IQ/OQ/PQ) / Microcalibrator Flowmeter